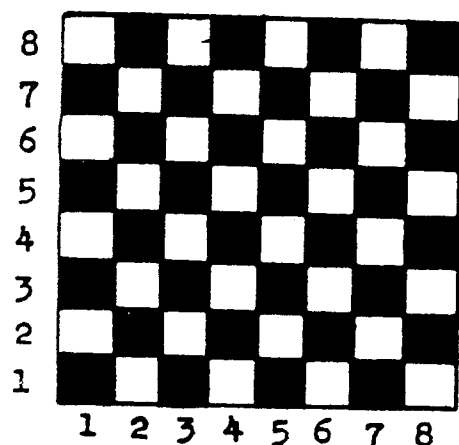


CHESSETTE

BY

CRAIG ANDERSON

This is a two-player program. The chess-board is laid out as follows:



To determine the coordinates of any piece or square, read "right up". For example, the white king begins at square 51. The black queen's pawn begins at square 47.

When the screen displays the prompt "FROM:" enter the square of the piece you wish to move, then press "GO". When the prompt "TO:" appears, enter the square to which you are moving, then press "GO". The computer will complete the move after a few seconds.

EXAMPLE: King's pawn opening by White.

FROM: 52 (press GO)

TO: 54 (press GO)

EXAMPLE: King's knight response by Black.

FROM: 78 (press GO)

TO: 66 (press GO)

All subsequent moves are entered in a similar manner, with three exceptions.

1. CASTLING. Enter the rook move only, adding a zero after the "TO:" square before pressing GO. This initiates the automatic castling sequence, and the computer will complete the entire move of both pieces.

EXAMPLE: King's side castle by White.

FROM: 81 (PRESS GO)

TO: 610 (press GO)

EXAMPLE: Queen's side castle by Black.

FROM: 18 (press GO)

TO: 480 (press GO)

2. EN PASSANT.

Enter the move as though the taking pawn was moving to the square occupied by the taken pawn. This initiates the automatic en passant sequence, and the computer will complete the entire move stepping behind the taken piece in the correct manner.

EXAMPLE: Fifth rank White king's pawn captures fourth rank Black queen's pawn after its initial two-square option.

FROM: 55 (press GO)

TO: 45 (press GO)

the computer will actually move the above white pawn to square 46 and will erase the black pawn at square 45; the correct sequence.

3. PAWN PROMOTION. As soon as the computer sees that you are moving a pawn to your opponent's back rank, it will ask: "CHOICE?" before completing the move. Enter the rank and color of the piece to which you are promoting the pawn. Negative numbers are white, positive numbers are black. Ranks are as follows:

<u>WHITE</u>		<u>BLACK</u>	
Pawn:	-1	Pawn:	1
Knight	-2	Knight	2
Bishop	-3	Bishop	3
Rook	-4	Rook	4
Queen	-5	Queen	5
King	-6	King	6

Obviously you cannot promote to a pawn (-1,1) or a king (-6,6), but the computer will not reject illegal entries. We assume, however, that your opponent will object strenuously!

The usual promotion is to queen or knight.

EXAMPLE: White pawn to promote to White queen:

FROM: 57 (press GO)

TO: 58 (press GO)

CHOICE: -5 (press GO)

The computer will complete the sequence.

ERRORS AND HANDICAPS

You can correct most errors simply by taking another turn and moving the piece back to where it came from. Suppose, however, that your error caused you to capture another piece. That piece has been

removed from the board and must be replaced. Enter the following:

FROM: 0 (press G0)
TO: 0 (press G0)

The screen will clear and a dimensioned array of the memory will appear, showing the colors and ranks of all the pieces in their current positions on the board. Empty squares are indicated by zero.

The board is stored in string memory, strings 1 through 64. The strings are arranged as follows:

8	16	24	32	40	48	56	64
7	15	23	31	39	47	55	63
6	14	22	30	38	46	54	62
5	13	21	29	37	45	53	61
4	12	20	28	36	44	52	60
3	11	19	27	35	43	51	59
2	10	18	26	34	42	50	58
1	9	17	25	33	41	49	57

You may now HALT the program and change any string location to any value you wish, or erase pieces by changing the value of the string location to zero.

For example, the White queen (15) is stored in string @(25) above. You can handicap White by a queen by HALTING the program and entering : @(25)=0;GOTO 61 then pressing G0. The screen will clear, the board and pieces will reappear, but the White queen will be gone.

You can use the same procedure to change any piece to any other piece, or to replace missing pieces or correct mistakes or to set up chess problems or demonstrations. Just remember to type GOTO 61 and press G0. This will return the board with your corrections but without changing the locations of any other pieces.

To return to the board from the memory display diagram, simply press any key. The board will reappear with all the pieces in their correct places.

Load and RUN the CHESSETTE program. A chessboard will appear on the right of the screen, and the pieces will be placed in their starting positions.

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1 .CHESSETTE
2 .BY C.J. ANDERSON
5 NT=0; GOTO 100
10 A=0;FOR B=0TO 70STEP 10;FOR C=-35TO 35STEP 10
11 A=A+1
12 IF @(A)=@(A+64)GOTO 16
13 W=1;IF @(A)>0W=2
14 X=B;Y=C;GOSUB 20+ABS(@(A))

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15 @(A+64)=@(A)
16 NEXT C
17 NEXT B;BOX -45,0,70,80,2
18 GOTO 130
20 BOX X,Y,8,8,(PX(X,Y+4)+3)÷2;BOX X,Y,8,8,3;RETURN
21 U=8;V=8;GOSUB 50;W=3;U=4;V=4;GOSUB 50;Y=Y+2;U=2;V=1;GOSUB 50;Y=Y-2;RETURN
22 GOSUB 40;X=X-2;Y=Y-2;U=2;V=2;GOSUB 50;RETURN
23 GOSUB 40;U=4;V=2;GOSUB 50;U=2;V=4;GOSUB 50;RETURN
24 GOSUB 40;Y=Y+2;U=2;V=2;GOSUB 50;RETURN
25 GOSUB 40;Y=Y+1;U=4;V=4;GOSUB 50;U=2;GOSUB 50;RETURN
26 GOSUB 40;Y=Y+1;U=6;V=4;GOSUB 50;U=2;GOSUB 50;U=4;V=2;GOSUB 50;RETURN
40 U=8;V=8;GOSUB 50;W=3;U=6;V=6;GOSUB 50;RETURN
50 BOX X,Y,U,V,W;RETURN
60 CLEAR ;FOR J=8TO 1STEP -1;FOR K=JTO 64STEP 8;PRINT #2,@(K),;NEXT K;PRINT ;NEXT J;PRINT ;PRINT "PRESS ANY KEY TO RETURN ";J=KP
61 FOR J=65TO 128;@(J)=0;NEXT J;GOTO 120
100 FOR A=1TO 128;@(A)=0;NEXT A;FOR A=2TO 58STEP 8;@(A)=-1;@(A+5)=1;NEXT A
110 @(8)=4;@(16)=2;@(24)=3;@(32)=5;@(40)=6;@(48)=3;@(56)=2;@(64)=4;FOR A=1TO 57STEP 8;@(A)=0-@(A+7);NEXT A
120 CLEAR ;FOR A=0TO 60STEP 20;BOX A,0,10,80,1;NEXT A;FOR A=-35TO 25STEP 20;BOX 35,A,80,10,3;NEXT A;BOX 35,0,82,82,3;GOTO 100
130 CY=4;INPUT "FROM:"F," TO:"T
140 IF F=0IF T=0GOTO 60
150 B=T;IF T>88T=T÷10
160 F=F-(8+(F÷10×2));T=T-(8+(T÷10×2))
170 IF B<89GOTO 200
180 @(T)=@(F);@(F)=0;IF T<F@ (T+8)=@(T-8);@(T-8)=0;GOTO 100
190 @(T-8)=@(T+8);@(T+8)=0;GOTO 100
200 IF ABS(@(F))#1GOTO 250
210 IF ABS(F-T)#8GOTO 250
220 @(T)=@(F);@(F)=0
230 F @(T)=1@ (T-1)=1;@(T)=0;GOTO 100
240 @(T+1)=-1;@(T)=0;GOTO 100
250 IF ABS(@(F))=1IF (T÷8×8=T)+((T+7)÷8×8=T+7)INPUT "CHOICE?"A;@(F)=0;@(T)=A;GOTO 100
260 @(T)=@(F);@(F)=0;GOTO 100

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NOTE: This issue does not contain the usual amount of programs and hardware information due to all the good news out of Astrovision. January issue will make up for this lack !!!